

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Jean M. Beaupre, et al.	Examiner:	Unassigned
Serial No:	09/757,013	Art Unit:	3739
Filed:	January 8, 2001	Docket:	13904(END-701)
For:	LAMINATED ULTRASONIC WAVEGUIDES FABRICATED FROM SHEET STOCK		

Assistant Commissioner for Patents
 United States Patent and Trademark Office
 Washington, D.C. 20231

RECEIVED
MAR 26 2002
TECHNOLOGY CENTER 1400

INFORMATION DISCLOSURE STATEMENT

Sir:

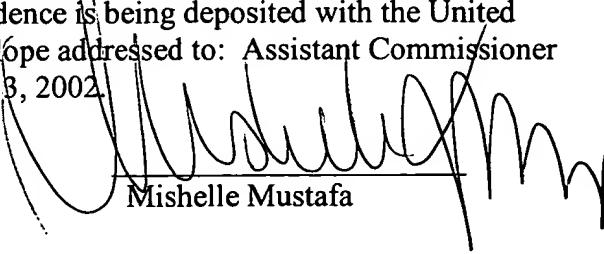
Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicant is submitting herewith an INFORMATION DISCLOSURE STATEMENT (PTO-1449) and a copy of each reference cited herein.

UK Patents 145,691 and 868,784 relate to the emission and reception of submarine sonar waves with Langevin stack transducers. These transducers are fabricated of laminations of piezoelectric materials which extend perpendicular to the transmission axis of the device for the purpose of producing and detecting ultrasonic energy. In contrast thereto, the present invention relates to ultrasonic waveguide or blades composed of laminations of metal parts which serve as waveguides and extend parallel to the transmission axis of the device for the purpose of transmitting, amplifying, and delivering ultrasonic energy.

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on March 13, 2002.

Dated: March 13, 2002



Mishelle Mustafa

U.S. Patent 2,930,912 for a Composite Electromechanical Transducer relates to piezoelectric Langevin stack transducers as addressed in UK Patents 145,691 and 868,784 with a non-metallic electrical insulator (not for the purposes of generation or transmission of ultrasonic energy) and magnetostrictive transducers. The magnetostrictive transducer is composed of a core with a plurality of laminated sections for the purpose of generating ultrasonic energy. This reference does not transmit, manipulate, amplify, or deliver ultrasonic vibrations similar to the present invention.

U.S. Patent 3,053,124 for Ultrasonic Welding discloses tweezers composed of flat steel which are attached to an ultrasonic waveguide. However, the tweezers are laminated only in a limited portion of the device (less than one half wavelength) and branch to form two ultrasonically active members. In contrast thereto, the present invention relates to an instrument having bonded laminates over a substantial portion of its length (greater than one half wavelength) to form a single waveguide.

U.S. Patent 4,911,161 for Capsulectomy Cutting Apparatus relates to a connection method comprising a tongue in groove design. This could be interpreted as a lamination, but is not a solid bond and is over a very limited portion (limited to near an antinode of the device).

U.S. Patent 4,992,048 for a Tool for Cleaning Tooth Root Canals discloses a tool comprised of a plurality of components in one limited portion of the device, but the components are not really laminations.

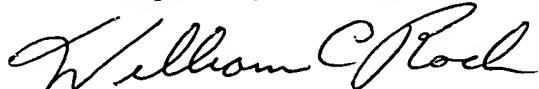
U.S. Patent 5,057,182 for an Ultrasonic Comb Horn relates to ultrasonic welding horn technology. These ultrasonic horns are made of thick sections (individual sections having a thickness from $\frac{1}{2}$ the width to greater than the width of the individual segments) which are spaced apart from one another except at noncritical points. This is to allow each segment to work independent of every other segment. In contrast thereto, the present invention relates to a device composed of thin plates bonded and laminated to one another at any point to produce a solid structure bonded at any point to produce a single active segment.

European patent applications EP 0 968 684 A1 for a Method For Balancing Asymmetric Ultrasonic Surgical Blades and EP 0 970 660 A1 for a Balanced Ultrasonic Blade Including a Plurality of Asymmetries relate to modified asymmetric designs to improve

performance, and could be used in conjunction with the laminated ultrasonic waveguide or blade development of the present invention when the layers are not axially symmetric.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no petition, certification or fee is required.

Respectfully submitted,



William C. Roch
Registration No.: 24,972

Scully, Scott, Murphy & Presser
400 Garden City Plaza
Garden City, New York 11530
(516) 742-4343

WCR/sf
Enclosures PTO Form 1449 w/ 9 references

3739

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))	Docket No. 13904 (END-701)
----------------------------------------------------------------------------------------------	-------------------------------

In Re Application Of: Jean M. Beaupre, et al.

Serial No.

09/757,013 MAR 22 2002

Filing Date

January 8, 2001

Examiner

Unassigned

Group Art Unit

3739

Title: LAMINATED ULTRASONIC WAVEGUIDES FABRICATED FROM SHEET STOCK

Address to:
Assistant Commissioner for Patents
Washington, D.C. 20231

MAR 26 2002
RECEIVED
U.S. PATENT AND TRADEMARK OFFICE
C. N. R. R. 3700

37 CFR 1.97(b)

- The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application; within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or before the mailing date of a first Office Action on the merits, whichever event occurs last.

37 CFR 1.97(c)

- The Information Disclosure Statement submitted herewith is being filed after three months of the filing of a national application, or the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; or after the mailing date of a first Office Action on the merits, whichever occurred last but before the mailing date of either:
 1. a Final Action under 37 CFR 1.113, or
 2. a Notice of Allowance under 37 CFR 1.311,whichever occurs first.

Also submitted herewith is:

- a certification as specified in 37 CFR 1.97(e);

OR

- the fee set forth in 37 CFR 1.17(p) for submission of an Information Disclosure Statement under 37 CFR 1.97(c).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
13904 (END-701)

In Re Application Of: Jean M. Beaupre, et al.

Serial No.
09/757,013

Filing Date
January 8, 2001

Examiner
Unassigned

Group Art Unit
3739

Title: LAMINATED ULTRASONIC WAVEGUIDES FABRICATED FROM SHEET STOCK



Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

TECHNOLOGY CENTER 1000
MAR 26 2002
RECEIVED
U.S. PATENT AND TRADEMARK OFFICE

- A check in the amount of _____ is attached.
- The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 10-1013/SSMP as described below. A duplicate copy of this sheet is enclosed.
- Charge the amount of _____
- Credit any overpayment.
- Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (Fax. No.

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by First Class Mail

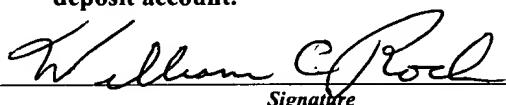
I certify that this document and fee is being deposited on 3/13/2002 with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231!

Signature of Person Mailing Correspondence

Mishelle Mustafa

Typed or Printed Name of Person Mailing Correspondence

*This certificate may only be used if paying by deposit account.



Signature

Dated: March 13, 2002

William C. Roch, Esq.
Registration No. 24,972
SCULLY, SCOTT, MURPHY & PRESSER
400 Garden City Plaza
Garden City, New York 11530
(516) 742-4343

CC: